

0374967 JBTES
559T80" 29642E50

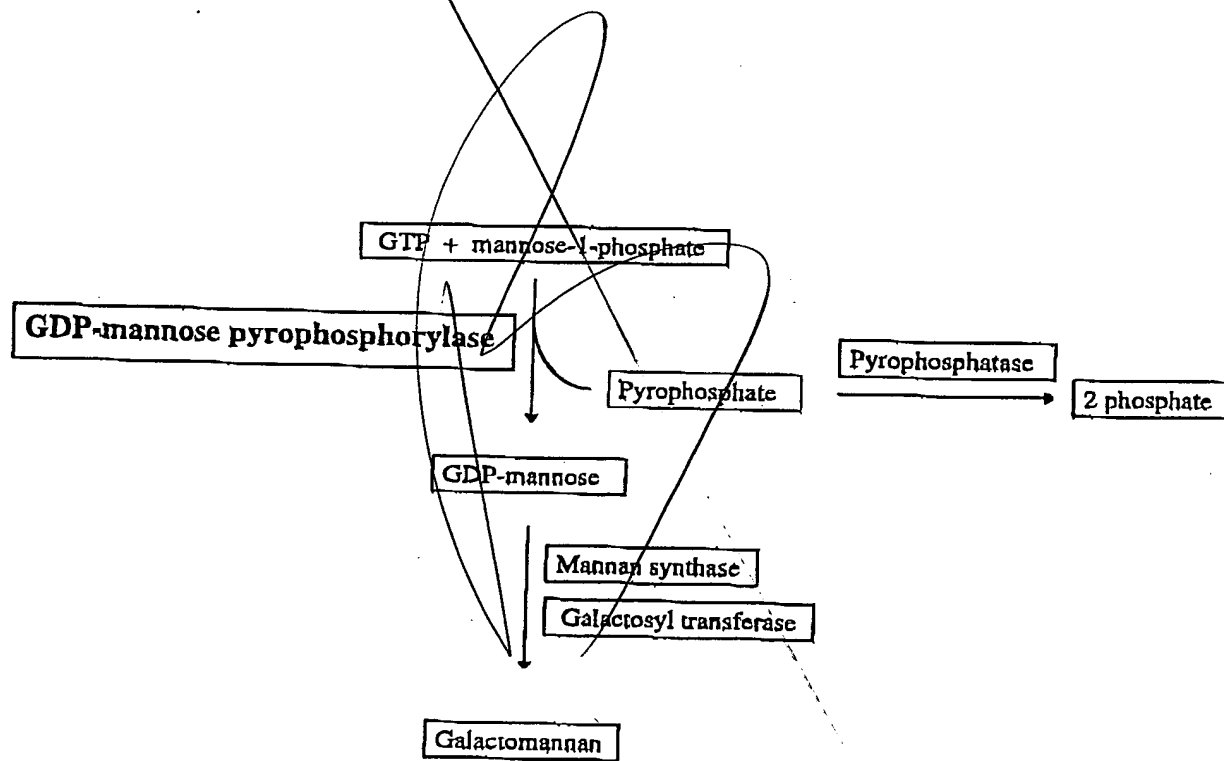


Figure 1

Sequence of maize GDP-mannose pyrophosphorylase cDNA

ATGAAGGCCCTCATTCTTGTCTGGGGGTTTCGGAACCCGCCTTCGGCCTTTGACTCTGAGC
TTCCCGAAACCCCTCGTGGAATTTTGCAAACAAGCCCATGATTCTGCACCAGATCGAAGCT
TTGAAAGAAGTTGGGGTCACAGAGGTGGTTTTTGGCTATCAACTATCGCCCAGAGGTAATG
ATTAATTTCTTGAAGGACTTTGAGGATAAGCTTGGCATCACAATTACATGCTCCCAAGAG
ACTGAGCCCTTAGGAACCGCTGGCCCTCTTGCTCTAGCAAGGGACAAGCTTGCGGATGGA
TCTGGCCAGCCATTCTTTGTCCTCAACAGTGATGTCATAAGCGAATACCCATTTGCTGAA
CTCATCAAATTTACAAAGTGTGATGGTGGTGAGGCAACAATTATGGTCACTAAGGTGGAT
GAACCATCAAATAACGGTGTGTGGTTATGGAGGAGGCAACTGGCAGGGTGGAAAGGTTT
GTTGAGAAGCCAAAAATATTTGTGGGTAACAAGATCAATGCTGGGATTTACTTACTGAAC
CCATCTGTCCTTGACCGCATTGAGCTGAGGCCAACATCAATTGAGAAAGAGGTCTTCCCT
CAAATTGCAGCTGATCAACAGCTCTATGCAATGGTCCTTCCAGGTTTTTGGATGGATGTT
GGTCAGCCTAGGGACTACATTACTGGCTTGCGTCTTTATCTAGACTCGATTAGGAAGAAA
TCAGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGTGCATGAGAGC
GCCAAGATTGGAGAAGGTTGTCTGATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTT
GTGGAGGACGGCGTGAGGCTTTCCCGCTGCACTGTCATGCGCGGCGTGCGTATCAAGAAG
CATGCTTGCATCTCAAACAGCATTATCGGCTGGCACTCAACTGTTGGTCAATGGGCACGG
ATAGAGAATATGACTATCCTGGGGGAGGATGTTTATGTGTGTGATGAGGTGTACAGCAAT
GGCGGTGTTGTTCTCCACATAAAGAGATCAAGTCAAGCATTCTGAAGCCTGAGATCGTC
ATGTGA

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Figure 2

Deduced amino acid sequence of maize GDP-mannose
pyrophosphorylase

MKALILVGGFGTRLRPLTLSFPKPLVDFANKPMILHQIEALKEVGVTENVLAINRPEVM
INFLKDFEDKLGITITCSQETETPLGTAGPLALARDKLADGSGQPFFVLNSDVISEYPFAE
LIKFKHCHGGEATIMVTKVDEPSKYGVVVMEEATGRVERFVEKPKIFVGNKINAGIYLLN
PSVLDRIELRPTSIEKEVFPPQIAADQQLYAMVLPGFWMVDVGQPRDYITGLRLYLDSEIRKK
SAAKLATGAHVVGNNLVHESAKIGEGCLIGPDVAIGPGCVVEDGVRLSRCTVMRGVRIKK
HACISNSIIGWHSTVGQWARIENMTILGEDVHVCDEVYSNGGVVLPKHEIKSSILKPEIV
M*

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Figure 3

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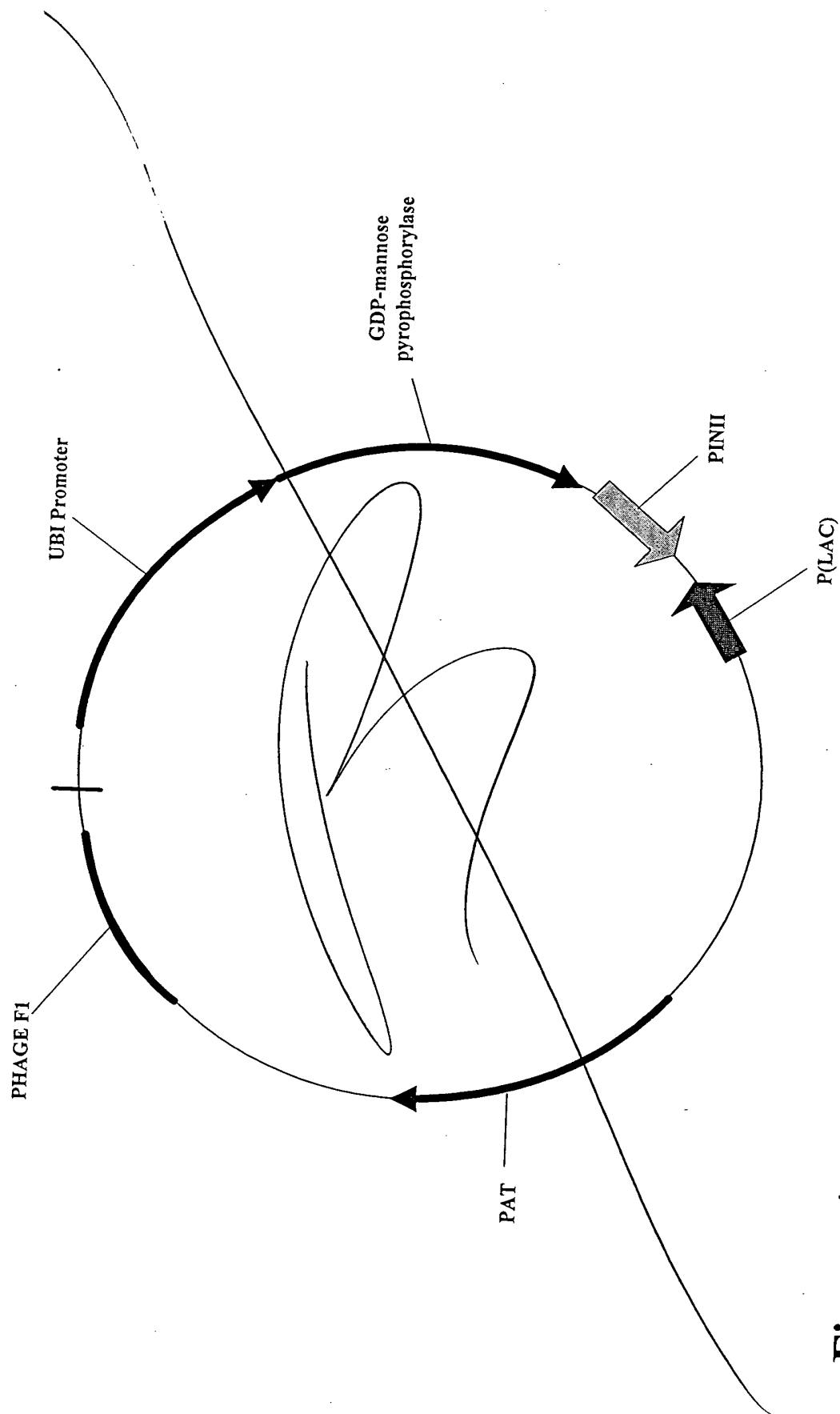


Figure 4